

Title (en)
Yarn heat treatment roller

Title (de)
Galette zum Erhitzen eines Fadens

Title (fr)
Rouleau pour traitement thermique de fils

Publication
EP 1126061 A3 20031001 (EN)

Application
EP 00128193 A 20001221

Priority
JP 2000038141 A 20000210

Abstract (en)
[origin: EP1126061A2] The yarn heat treatment roller of the present invention is provided with a shaft (3) supported by bearings (11, 12) inside a supporting body (2), a roller main body (4) connected to the one end of the shaft outside the supporting body, and a heater (5) positioned between the supporting body and the roller main body. The present invention further includes cooling means (51, 52) to cool the inner rings of the bearings and the adjacent area thereof and also the outer rings of the bearings and the adjacent area thereof. These cooling means include heat pipes (26, 27) and vents (29). The yarn heat treatment roller further comprises a suppression means (35) that constitutes in a dented area (38) formed at the one end of the shaft (3) in order to reduce the contacting area between the roller main body (4) and the shaft end (Fig. 3). <IMAGE>

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Citation (search report)

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